

PATENT COOPERATION TREATY

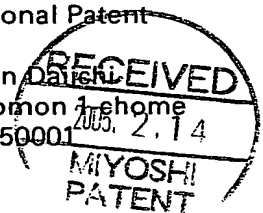
PCT

**NOTIFICATION CONCERNING
THE FILING OF AMENDMENTS OF THE CLAIMS**
(PCT Administrative Instructions, Section 417)

From the INTERNATIONAL BUREAU

To:

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| Date of mailing (day/month/year) 04 February 2005 (04.02.2005) | IMPORTANT NOTIFICATION |
| Applicant's or agent's file reference JSONY-621PCT | |
| International application No. PCT/JP2004/014806 | International filing date (day/month/year) 30 September 2004 (30.09.2004) |
| Applicant SONY CORPORATION et al | |

1. The applicant is hereby notified that amendments to the claims under Article 19 were received by the International Bureau on:

03 February 2005 (03.02.2005)

2. This date is within the time limit under Rule 46.1.

Consequently, the international publication of the international application will contain the amended claims according to Rule 48.2(f), (h) and (i).

3. The applicant is reminded that the international application (description, claims and drawings) may be amended during the international preliminary examination under Chapter II, according to Article 34, and in any case, before each of the designated Offices, according to Article 28 and Rule 52, or before each of the elected Offices, according to Article 41 and Rule 78.

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| <p>The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. (41-22) 338.90.90</p> | <p>Authorised officer</p> <p align="center">Floriza DAYAO (Fax 338 9090)</p> <p>Telephone No. (41-22) 338 8986</p> |
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(ENGLISH LANGUAGE TRANSLATION OF AMENDMENTS TO
THE CLAIMS UNDER PCT-ART 19(1))

PCT/JP2004/014806

15 (16)

Claims

1. (Amended) A recording/reproducing apparatus,
5 characterized by comprising:

a recording medium having different transfer rates
in accordance with record positions; and

control means for controlling a temporary record
area to be released by writing data transferred from a host
10 apparatus into the temporary record area with use of a
predetermined record area of the recording medium as the
temporary record area, and transferring the data from the
temporary record area to another record area having a lower
transfer rate than that of the temporary record area during
15 an idle period,

wherein the control means reads a table in the
recording medium into a memory storing the table for managing
address information on a file in the recording medium in
response to a switch command from the host apparatus for
20 switching to a write mode with use of the temporary record
area, checks an empty area in the temporary record area or
in the another record area with reference to the table stored
in the memory, and notifies a write start address of the another
record area to the host apparatus.

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2. (Cancelled)

3. The recording/reproducing apparatus according to
claim 1, characterized in that

30 if an access request for the storage apparatus from
the host apparatus does not occur after the lapse of a

(ENGLISH LANGUAGE TRANSLATION OF AMENDMENTS
TO THE CLAIMS UNDER PCT-Art 19)

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predetermined time or longer, the control means controls to
release the temporary record area by transferring data from
the temporary record area to the other record area having a
5 lower transfer rate than that of the temporary record area.

4. The recording/reproducing apparatus according to
claim 1, characterized in that

the control means compresses data and writes the
10 data into the temporary record area, and decompresses the
compressed data before the data is transferred to the other
record area.

5. (Amended) A recording method for recording data into
15 a recording medium having different transfer rates in
accordance with record positions, characterized by comprising
the steps of:

writing data transferred from a host apparatus into
a temporary record area with use of a predetermined record
20 area of the recording medium as the temporary record area;

releasing the temporary record area by transferring
the data from the temporary record area to another record area
having a lower transfer rate than that of the temporary record
area during an idle period;

25 reading the table in the recording medium into a
memory in a recording/reproducing apparatus in response to
a switch command from the host apparatus for switching to a
write mode with use of the temporary record area; and

checking an empty area in the temporary record area
30 or in the another record area with reference to the table stored
in the memory.

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6. (Cancelled)

7. The recording method according to claim 5,
5 characterized in that:

if an access request for the storage apparatus from
the host apparatus does not occur after the lapse of a
predetermined time or longer, the temporary record area is
released by transferring data from the temporary record area
10 to the another record area having a lower transfer rate than
that of the temporary record area.

8. The recording method according to claim 5,
characterized by further comprising the steps of:

15 compressing data to be written into the temporary
record area; and

decompressing the compressed data read from the
temporary record area at the time of transferring the data
from the temporary record area to the another record area.

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AP2004/014806 29 MAR 2006

World Intellectual Property Organization
PCT Division
34 Chemin des Colombettes
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Feb. 3, 2005

Amendment of the claims under Article 19(1) (Rule 46)

International Application No.: PCT/JP2004/014806

International Filing Date: 30.09.2004

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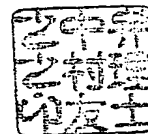
Applicant's or Agent's File Reference: JSONY-621PCT

Dear Sirs:

The Applicant, who received the International Search Report relating to the above identified International Application transmitted on 14.12.2004, hereby files amendment under Article 19(1) as in the attached sheets.

In the attached sheets (Sheet Nos. 15 and 16), the claims 1 and 5 are amended, the claims 2 and 6 are canceled and the claims 3,4,7 and 8 are retained unchanged.

Sincerely yours,



弁理士 中村 友之
NAKAMURA, Tomoyuki
Patent Attorney

Attachment:

Amendment under Article 19(1)

Sheet Nos. 15 and 16

請 求 の 範 囲

1. (補正後) 記録位置によって転送速度が異なる記録媒体と、

5 前記記録媒体の予め決められた記録領域を一時的な記録領域として用いて、ホスト装置より転送されたデータを前記一時的な記録領域に書き込み、空き時間に前記一時的な記録領域からこの一時的な記録領域より転送速度が低い他の記録領域にデータを移動させて前記一時的な記録領域を開放するように制御する制御手段と

を具備し、

10 前記制御手段は、前記ホスト装置からの前記一時的な記録領域を用いた書込みモードにする切替命令に応じて、前記記録媒体上のファイルのアドレス情報を管理するためのテーブルを記憶するメモリに前記記録媒体上の前記テーブルを読み込み、このメモリに記憶された前記テーブルを参照して、前記一時的な記録領域及び前記その他の記録領域内の空き
15 領域を調べ、前記その他の記録領域の書込み開始アドレスをホスト装置に通知することを特徴とする記録再生装置。

2. (削除)

3. 前記制御手段は、前記ホスト装置からの前記記憶装置のアクセス要求が予め決められた時間以上発生しない場合に、前記一時的な記録領域
20 域からこの一時的な記録領域より転送速度が低い他の記録領域にデータを移動させて前記一時的な記録領域を開放するように制御することを特徴とする請求項 1 に記載の記録再生装置。

4. 前記制御手段は、データを圧縮して前記一時的な記録領域へ書き込み、前記他の記録領域にデータを移動させる前に圧縮データを復元する
25 ことを特徴とする請求項 1 に記載の記録再生装置。

5. (補正後) 記録位置によって転送速度が異なる記録媒体にデータ

を記録する方法であって、

前記記録媒体の予め決められた記録領域を一時的な記録領域として用いて、ホスト装置より転送されたデータを前記一時的な記録領域に書き込むステップと、

- 5 空き時間に前記一時的な記録領域からこの一時的な記録領域より転送速度が低い他の記録領域にデータを移動させて前記一時的な記録領域を開放するステップと

- 前記ホスト装置からの前記一時的な記録領域を用いた書込みモードにする切替命令に応じて、前記記録媒体上の前記テーブルを記録再生装置
10 内のメモリに読み込むステップと、

このメモリに記憶された前記テーブルを参照して、前記一時的な記録領域及び前記その他の記録領域内の空き領域を調べるステップとを有することを特徴とする記録方法。

6. (削除)

- 15 7. 前記ホスト装置からの前記記憶装置のアクセス要求が予め決められた時間以上発生しない場合に、前記一時的な記録領域からこの一時的な記録領域より転送速度が低い他の記録領域にデータを移動させて前記一時的な記録領域を開放することを特徴とする請求項5に記載の記録方法。

- 20 8. 前記一時的な記録領域へ書き込むデータを圧縮するステップと、
前記一時的な記録領域から前記他の記録領域にデータを移動させるとき、前記一時的な記録領域から読み出された圧縮データを復元するステップと

をさらに有することを特徴とする請求項5に記載の記録方法。